

## Chronological list

# Olga Taussky Todd

## Problems and Solutions

Lösung der Aufgabe #128 (I. Schur, **41** (2. Abt.): 67, 2. Abt.), Jahresbericht der Deutschen Mathematiker Vereinigung, **42** (2. Abt): 119–120. (1933).

Research problem 11 (Multiply monotonic sequences), *Bull. Amer. Math. Soc.* **60**: 289–290 (1954).

Research problem 12 (The Hilbert matrix), *Bull. Amer. Math. Soc.* **60**: 289–290 (1954). (Solutions by T. Kato, *Proc. AMS* **58**: 78–81 (1957) and *Comm. PAM* **11**: 573–586 (1958) and by M. Rosenblum *Proc. AMS* **9**: 137–140 and 581–585 (1958))

Research problems, 9, 10, and 11, *Bull. Amer. Math. Soc.* **64**: 124 (1958).

Research problem 2 (eigenvalues of Jordan products), *Bull. Amer. Math. Soc.* **66**: 275 (1960).

Research problem 17, three problems in matrix theory (Jordan Products), *Bull. Amer. Math. Soc.* **71**: 711 (1965).

Problem 67–13, On two matrices, proposed in *SIAM Review* **9**: 590, (1967), Solution by D.Z. Djokovic in **10**: 379 (1968).

Research problem 18, problems on matrices and operators, *Bull. Amer. Math. Soc.* **76**: 977 (1970).

Three problems, P91, P106, P107, *Aequationes Mathematicae* **8**: 172 and 187 (1972).

Two research problems, *Linear and Multilinear Algebra* **1**: 173 (1973).

Research problem, *Linear and Multilinear Algebra* **1**: 273 (1973).

Response to Query 26 (Small, *Notices AMS* **20**: 307, Oct. 1973) *Notices Amer. Math. Soc.* **21**: 159 (1974).

Solution (not published) to problem E 2545 proposed by Ron Evans in *American Mathematical Monthly*, **82**: 660 (1975). The published solution (*American Mathematical Monthly*, **83**: 747 (1976) is by L. E. Mattics and the problem was also solved by Taussky and Hans Zassenhaus.

Answer to Query 153 (L. D. Baumert, *Notices AMS*, **25**: 252 (1978), *Notices Amer. Math. Soc.* **25**: 424 (1978).

Problem #19 (Common invariant subspaces of operators and commutativity) in *Linear Spaces and Approximation*, Proceedings of the Conference held at the Oberwolfach Mathematical Research Institute, Black Forest, August 20–27, (Edited by P.L. Butzer and B. Szökefalvi-Nagy), International Series of Numerical Mathematics, Vol. 40, pp. 669–670, Birkhäuser, Basel und Stuttgart (1978).

Advanced problem #6210 proposed in *American Mathematical Monthly*, **85**: 389 (1978) (Solution by R.M. Guralnick in *American Mathematical Monthly*, **87**: 228–229 (1980)).

Research problems 1, 2, 3, *Linear and Multilinear Alg.*, **10**: 165–166 (1981).

Research problem, *Linear and Multilinear Alg.*, **10**: 351 (1981) (with R.M. Guralnick).

Two research problems on normal matrices, *Linear and Multilinear Alg.*, **17**: 85 (1985).

Research problem “Eigenvalues, circles, ovals, and periods of complex functions, *Linear and Multilinear Alg.*, **18**: 87–88 (1985).

Research problem of L. Foster and O. Taussky, *Linear and Multilinear Alg.*, **18**: 355–356 (1985). (with L. Foster)